

Maryland Historical Trust

Maryland Inventory of Historic Properties number: BA-2689

Name: B0197/HITCHINS MILL RD OVER NELSON FARM

The bridge referenced herein was inventoried by the Maryland State Highway Administration as part of the Historic Bridge Inventory, and SHA provided the Trust with eligibility determinations in February 2001. The Trust accepted the Historic Bridge Inventory on April 3, 2001. The bridge received the following determination of eligibility.

MARYLAND HISTORICAL TRUST	
Eligibility Recommended <u>  X  </u>	Eligibility Not Recommended <u>      </u>
Criteria: <u>  </u> A <u>  </u> B <u>  </u> C <u>  </u> D Considerations: <u>  </u> A <u>  </u> B <u>  </u> C <u>  </u> D <u>  </u> E <u>  </u> F <u>  </u> G <u>  </u> None	
Comments: _____	
_____	
Reviewer, OPS: <u>Anne E. Bruder</u>	Date: <u>  3 April 2001  </u>
Reviewer, NR Program: <u>Peter E. Kurtze</u>	Date: <u>  3 April 2001  </u>

MARYLAND INVENTORY OF HISTORIC BRIDGES  
HISTORIC BRIDGE INVENTORY  
MARYLAND STATE HIGHWAY ADMINISTRATION/  
MARYLAND HISTORICAL TRUST

MHT No. BA-2689

SHA Bridge No. B 0197

Bridge name Hutchins Mill Road over Nelson Branch

**LOCATION:**

Street/Road name and number [facility carried] Hutchins Mill Road

City/town Manor 0.41 mi N of Hess Road Vicinity X

County Baltimore

This bridge projects over: Road      Railway      Water X Land     

Ownership: State      County X Municipal      Other     

**HISTORIC STATUS:**

Is bridge located within a designated historic district? Yes X No     

National Register-listed district X National Register-determined-eligible district     

Locally-designated district      Other     

Name of district My Lady's Manor National Register Historic District

**BRIDGE TYPE:**

Timber Bridge     :

Beam Bridge      Truss -Covered      Trestle      Timber-And-Concrete     

Stone Arch Bridge     

Metal Truss Bridge     

Movable Bridge     :

Swing      Bascule Single Leaf      Bascule Multiple Leaf     

Vertical Lift      Retractable      Pontoon     

Metal Girder     :

Rolled Girder      Rolled Girder Concrete Encased     

Plate Girder      Plate Girder Concrete Encased     

Metal Suspension     

Metal Arch     

Metal Cantilever     

Concrete X:

Concrete Arch      Concrete Slab X Concrete Beam      Rigid Frame     

Other      Type Name

**DESCRIPTION:**Setting: Urban \_\_\_\_\_ Small town \_\_\_\_\_ Rural X**Describe Setting:**

Bridge B0197 carries Hutchins Mill Road in a north-south direction over Nelson Branch, which flows in an easterly direction. The area is relatively undeveloped with only one house approximately 300 yards from bridge. The area is wooded around the stream with open fields north and south of the bridge. The bridge is within the historic district of My Lady's Manor.

**Describe Superstructure and Substructure:**

Bridge B0197 is a two span concrete slab bridge on concrete abutments with a concrete pier, built c. 1920. The spans are 12.0 feet and the overall length is 26.0 feet; the curb to curb width is 20.0 feet and the deck out to out width is 22.0 feet. The skew is 70 degrees. The wingwalls are concrete and are flared approximately 20 degrees to the centerline of the bridge. The parapets are solid concrete and integral to the deck. The roadway supports two way traffic and is posted at for restricted load. The 1993 inspection report described the bridge as in fair condition.

**Discuss Major Alterations:**

Baltimore County files do not indicate that any major alterations have been undertaken.

**HISTORY:**

**WHEN was bridge built (actual date or date range)** 1920

This date is: Actual    Estimated X

**Source of date:** Plaque    Design plans    County bridge files/inspection form X

**Other (specify)** \_\_\_\_\_

**WHY was the bridge built?**

The need for a more efficient transportation network and increased load capacity in the decades following World War I.

**WHO was the designer?**

State Highway Administration

**WHO was the builder?**

Unknown

**WHY was the bridge altered?**

Unknown

**Was this bridge built as part of an organized bridge-building campaign?**

As part of an effort by the State to increase load capacity on secondary roads during the 1920s.

**SURVEYOR/HISTORIAN ANALYSIS:**

**This bridge may have National Register significance for its association with:**

A - Events \_\_\_\_\_ B- Person \_\_\_\_\_

C- Engineering/architectural character \_\_\_\_\_

This bridge is within the National Register Historic District of My Lady's Manor.

**Was the bridge constructed in response to significant events in Maryland or local history?**

Reinforced concrete slab bridges are a twentieth century structure type, easily adapted to the need for expedient engineering solutions. Reinforced concrete technology developed rapidly in the early twentieth century with early recognition of the potential for standardized design. The first U.S. attempt to standardize concrete design specifications came in 1903-04 with the formation of the Joint Committee on Concrete and Reinforced Concrete of the American Society of Civil Engineers.

Maryland's road and bridge improvement programs mirrored economic cycles. The first road improvement program of the State Roads Commission was a 7 year program, starting with the Commission's establishment in 1908 and ending in 1915. Due to World War I, the period from 1916-1920 was one of relative inactivity; only roads of first priority were built. Truck traffic resulting from war-related factories and military installations generated new, heavy traffic unanticipated by the builders of the early road system. From 1920 to 1929, numerous highway improvements occurred in response to the increase in Maryland motor vehicles from 103,000 in 1920 to 320,000 in 1929, with emphasis on the secondary system of feeder roads which moved traffic from the primary roads built before World War I. After World War I, Maryland's bridge system also was appraised as too narrow and structurally inadequate for the increasing traffic, with plans for an expanded bridge program to be handled by the Bridge Division, set up in 1920. In 1920 under Chapter 508 of the Acts of 1920 the State issued a bond of \$3,000,000.00 for road construction; the primary purpose of these monies was to meet the state obligations involving the construction of rural post roads. The secondary purpose of these monies was to fund [with an equal sum from the counties] the building of lateral roads. The number of hard surfaced roads on the state system grew from 2000 in 1920 to 3200 in 1930. By 1930, Maryland's primary system had become inadequate to the huge freight trucks and volume of passenger cars in use, with major improvements occurring in the late 1930s. Most improvements to local roads waited until the years after World War II.

With a diverse topographical domain encompassing numerous small and large crossings, Maryland engineers quickly recognized the need for expedient design and construction.

In the early years, there was a need to replace the numerous single lane timber bridges. Walter Wilson Crosby, Chief Engineer stated in 1906, "The general plan has been to replace these [wood bridges] with pipe culverts or concrete bridges and thus forever do away with the further expense of the maintenance of expensive and dangerous wooden structures". Within a few years, readily constructed standardized bridges of concrete were being built throughout the state.

The creation of standard plans and a description of their use was first announced in the 1912-15 Reports of the State Roads Commission whereby bridges spanning up to 36 feet were to use standardized designs.

Published on a single sheet, the 1912 Standard Plans included those structures that were amenable to such an approach: slab spans, (deck) girder spans, box culverts, box bridges, abutments, and piers (State Roads Commission 1912). Slab spans, with lengths of 6 to 16 feet in two foot increments, featured a solid parapet that was integrated into the slab, with a roadway of 22 feet.

In the Report for the years 1916-1919, a revision of the standard plans was noted:

During the four years covered by this report, it has been found necessary to revise our standard plans for culverts and bridges, to take care of the increased tonnage which they have been forced to carry. Army cantonments...increased their operations several hundred per cent, and the brunt of the enormous truck traffic resulting therefrom, was borne by the State Roads of Maryland. In addition to these war activities, freight motor lines from Baltimore to Washington, Philadelphia, New York, and various points throughout Maryland,

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Based upon documentary evidence, Baltimore County and City were the early pioneers in concrete bridge building in Maryland. The first reinforced concrete bridge documented in Maryland was the bridge at Sherwood Station, built in 1903 by Baltimore County.

**When the bridge was built and/or given a major alteration, did it have a significant impact on the growth and development of the area?**

**Is the bridge located in an area which may be eligible for historic designation?**

The bridge is within My Lady's Manor Historic District and does not add to or detract from the district.

No, this bridge is an undistinguished example of a concrete slab bridge.

The bridge appears to have its character defining elements intact.

The bridge is not a significant example of the work a manufacturer, designer, and/or engineer.

No additional study will be needed before an evaluation of the significance of this bridge is made.

**County inspection/bridge files** \_\_\_\_\_ **X** \_\_\_\_\_      **SHA inspection/bridge files** \_\_\_\_\_  
**Other (list):**

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**SURVEYOR:**

**Date bridge recorded** 08/15/95

**Name of surveyor** Colin Farr

**Organization/Address** P.A.C. Spero & Company, Suite 412, 40 West Chesapeake Ave., Baltimore,  
MD 21204

**Phone number** (410) 296-1635

**FAX number** (410) 296-1670

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A black and white photograph of a narrow, paved road winding through a rural landscape. The road is flanked by bare trees and a wooden fence. A weight limit sign is posted on the right side of the road. The sign is rectangular with a white background and black text. It lists three weight limits: 15T, 26T, and 40T, each preceded by a small icon of a vehicle. The road curves to the right in the distance. The sky is overcast and the ground is covered in grass and fallen leaves.

WEIGHT  
LIMIT  
15T  
26T  
40T



Inventory # BA 2689

Name BV197-NUTCHINS MILL RD OVER NELSON BRANCH

County/State BALTIMORE COUNTY/MD

Name of Photographer DAVE DIEHL

Date 1/95

Location of Negative SWA

Description SOUTH APPROACH LOOKING  
NORTH EAST

Number <sup>1</sup>13 of 39 4



Inventory # BA 2639

Name B0197- HUTCHINS MILL RD OVER NELSON BRANCH

County/State BALTIMORE COUNTY / MD

Name of Photographer DAVE DIEHL

Date 1/95

Location of Negative SHA

Description EAST ELEVATION LOOKING  
NORTH

Number 2 of 374



Inventory # BA 2689

Name B0197- HUTCHINS MILL RD OVER NELSON BRANCH

County/State BALTIMORE COUNTY / MD

Name of Photographer DAVE DIEHL

Date 1/95

Location of Negative SHA

Description WEST ELEVATION LOOKING  
SOUTH

Number 3 of 37 4



Inventory # BA 2689

Name B0197- HUTCHINS MILL RD OVER NELSON BRANCH

County/State BALTIMORE COUNTY/MD

Name of Photographer DAVE DIEHL

Date 1/95

Location of Negative SWA

Description NORTH APPROACH LOOKING  
SOUTHWEST

Number 7 of 374